

HAOTONG LIN

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SHORT BIO

I am a third year (2021.09-) Ph.D. student in Computer Science at Zhejiang University, supervised by Prof. [Xiaowei Zhou](#). I obtained my bachelor degree in Computer Science from the same university in 2021. Throughout my undergraduate years, I remained dedicated to my studies, achieving a notable GPA and ranking among the top of my class. I was honored to receive the National Scholarship, which is the highest accolade for undergraduates in China.

My recent works focus on reconstructing a real-world dynamic scene in 3D from videos and rendering it in photorealistic quality. I envision creating a visual time machine. Through my research, I hope that in the future we can revisit any moment of our choice and experience it immersively.

EDUCATION

Zhejiang University 2017.08 - 2021.06
B.S. in Computer Science and Technology Major GPA: 3.97/4.0, Rank*: 1/153 (The third year)

Zhejiang University 2021.08 - present
Ph.D. student in Computer Science and Technology (State Key Laboratory of CAD&CG)

EXPERIENCE

State Key Laboratory of CAD&CG, Zhejiang University 2019.03 - present
Advised by Prof. [Xiaowei Zhou](#). I work closely with [Sida Peng](#) and participate in scientific research projects related to 4D view synthesis/reconstruction.

Cornell University, Summer Intern (Remote) 2022.06 - 2022.12
Advised by Prof. [Noah Snavely](#). I collaborated with [Qianqian Wang](#) to explore 4D reconstruction using Internet photos, where the 4D refers to spanning several years.

Taobao Technology Department, Alibaba, Research Intern 2021.10 - 2022.04
Advised by Prof. [Xiaowei Zhou](#). I worked with [Huan Fu](#) on the fast reconstruction of goods.

Inceptio Technology, Algorithm Intern 2020.12 - 2021.03
Advised by Prof. [Ruigang Yang](#). I worked with Xinjing Cheng and developed Driver Monitor System for safe drive.

SELECTED PUBLICATIONS

High-Fidelity and Real-Time Novel View Synthesis for Dynamic Scenes SIGGRAPH Asia 2023
Haotong Lin, Sida Peng, Zhen Xu, Tao Xie, Xingyi He, Hujun Bao, Xiaowei Zhou.
[Project Page](#) (In Process)

Neural Scene Chronology CVPR 2023
Haotong Lin, Qianqian Wang, Ruojin Cai, Sida Peng, Hadar Averbuch-Elor, Xiaowei Zhou, Noah Snavely.
[Project Page](#)

Efficient Neural Radiance Fields for Interactive Free-viewpoint Video SIGGRAPH Asia 2022
Haotong Lin*, Sida Peng*, Zhen Xu, Yunzhi Yan, Qing Shuai, Hujun Bao, Xiaowei Zhou.
[Project Page](#)

PVNet: Pixel-wise Voting Network for 6DoF Object Pose Estimation T-PAMI 2020
Sida Peng*, Xiaowei Zhou*, Yuan Liu, **Haotong Lin**, Qixing Huang, Hujun Bao.
[Code](#) (My first research project.)

OTHER PUBLICATIONS

- AutoRecon: Automated 3D Object Discovery and Reconstruction** **CVPR 2023**
Yuang Wang, Xingyi He, Sida Peng, **Haotong Lin**, Hujun Bao, Xiaowei Zhou.
[Project Page](#)
- View Synthesis of Natural Scenes from a Single Semantic Mask** **CVPR 2023**
Shangzhan Zhang, Sida Peng, Tianrun Chen, Linzhan Mou, **Haotong Lin**, Kaicheng Yu, Yiyi Liao, Xiaowei Zhou.
[Project Page](#)
- Learning to Estimate Object Poses without Real Image Annotations** **IJCAI 2022**
Haotong Lin*, Sida Peng*, Zhize Zhou, Xiaowei Zhou.
- Neural 3D Scene Reconstruction with the Manhattan-world Assumption** **CVPR 2022**
Haoyu Guo*, Sida Peng*, **Haotong Lin**, Qianqian Wang, Guofeng Zhang, Hujun Bao, Xiaowei Zhou.
[Project Page](#)

HONORS

- National Scholarship**, Top 2% *2022.10*
- He Zhijun Special Scholarship in College of Computer Science and Technology**, 1/~800 *2021.02*
- National Scholarship**, Top 2% *2020.10*
- First-Class Scholarship of Zhejiang University**, Top 5%, 3 times *2018, 2019, 2020.10*
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- Meritorious Winner**, American College Students Mathematical Contest in Modeling *2020.05*
- National Second Prize**, China Undergraduate Mathematical Contest in Modeling *2019.11*
- Third Prize**, Programming Competition of Zhejiang University *2019.04*

TEACHING

- Introduction to Computer Vision**, Teaching Assistant *Fall, 2023*
- Introduction to Computer Vision**, Teaching Assistant *Fall, 2022*
- Introduction to Computer Vision**, Teaching Assistant *Fall, 2021*